

FIG. 1

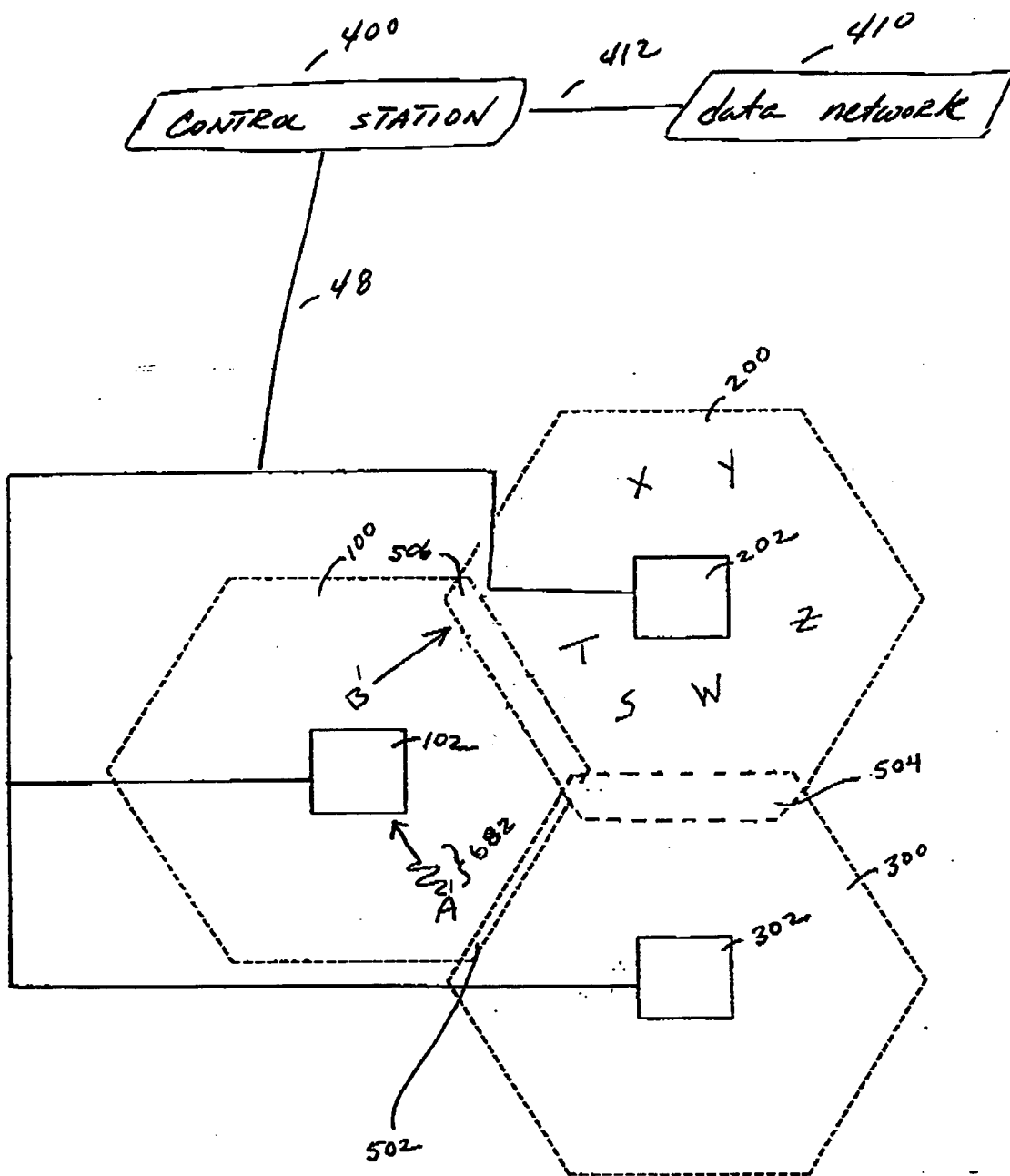


FIG. 2(a)

602

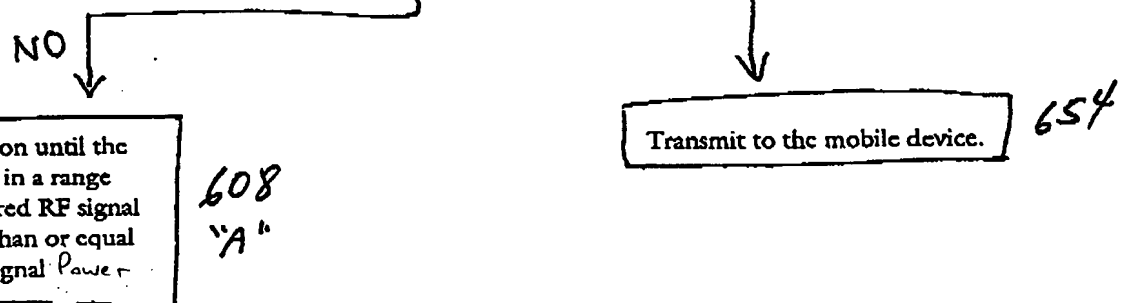
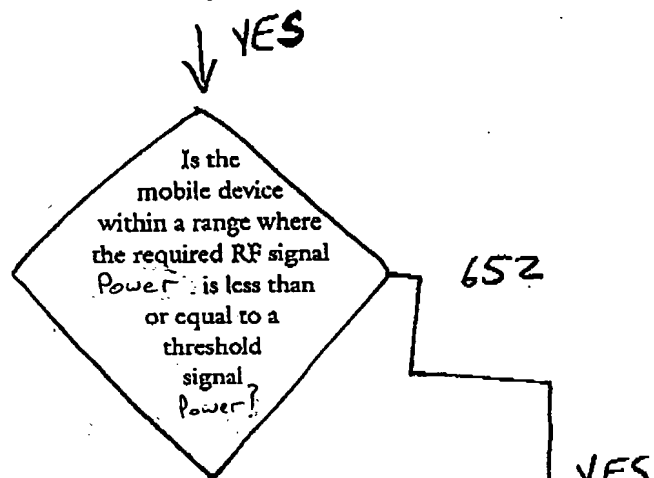
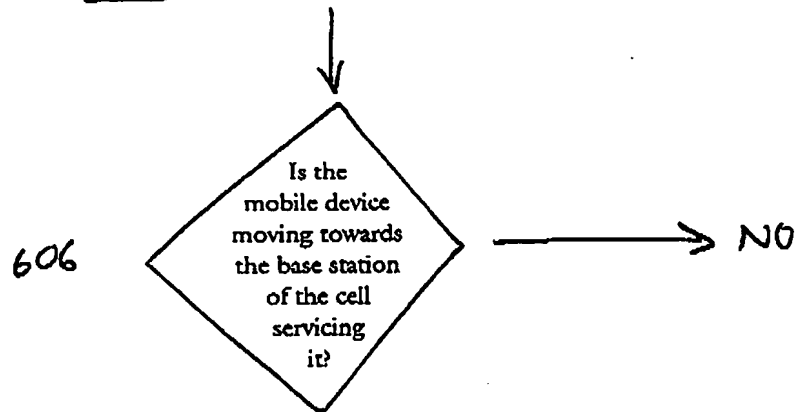
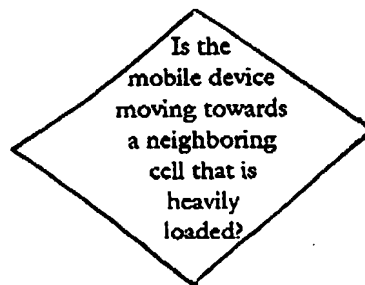
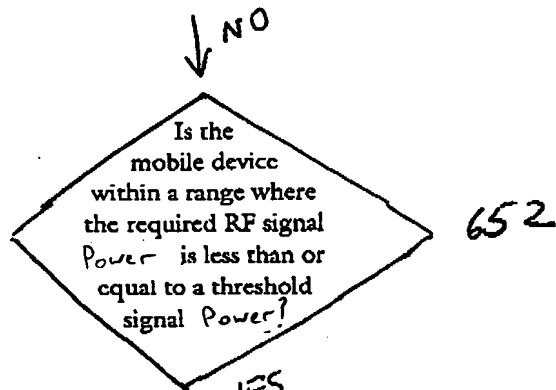
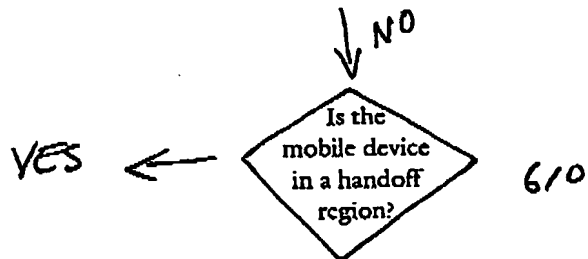
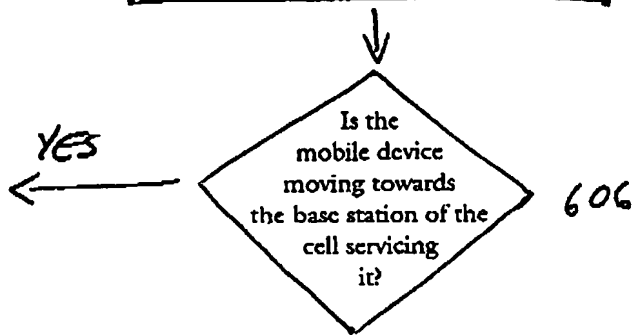


FIG 2(b)

Acquire data to provide the location,  
speed and direction of a mobile device.

602



Increase the RF signal power.

616  
"B"

FIG. 2(c)

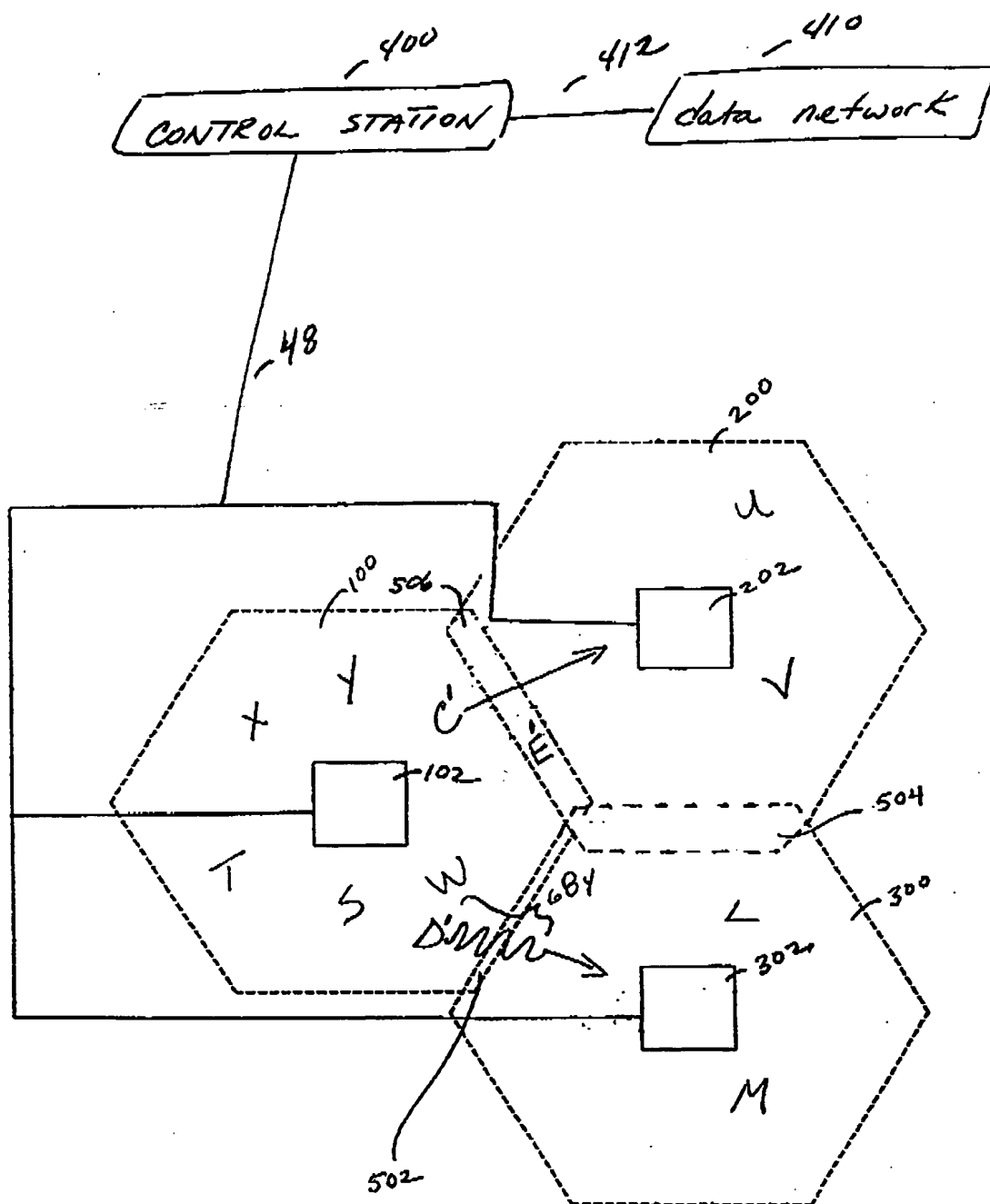


FIG. 3(a)

602



610

YES

618

620

622  
"C"

**SECRET**

Acquire data to provide the location,  
speed and direction of a mobile device.

602

Is the  
mobile device  
moving towards  
a neighboring  
base station?

607

↓ YES

Is the  
mobile device  
in a handoff  
region?

610

↓ YES

Is the  
cell towards  
which the mobile  
device is moving  
lightly loaded?

618

↓ NO

Is a data  
burst  
underway?

620

↓ NO

Delay transmission  
until the mobile  
device is in the  
cell towards which  
it is moving.

624  
"D"

FIG. 3(c)

Acquire data to provide the location,  
speed and direction of a mobile device.

602

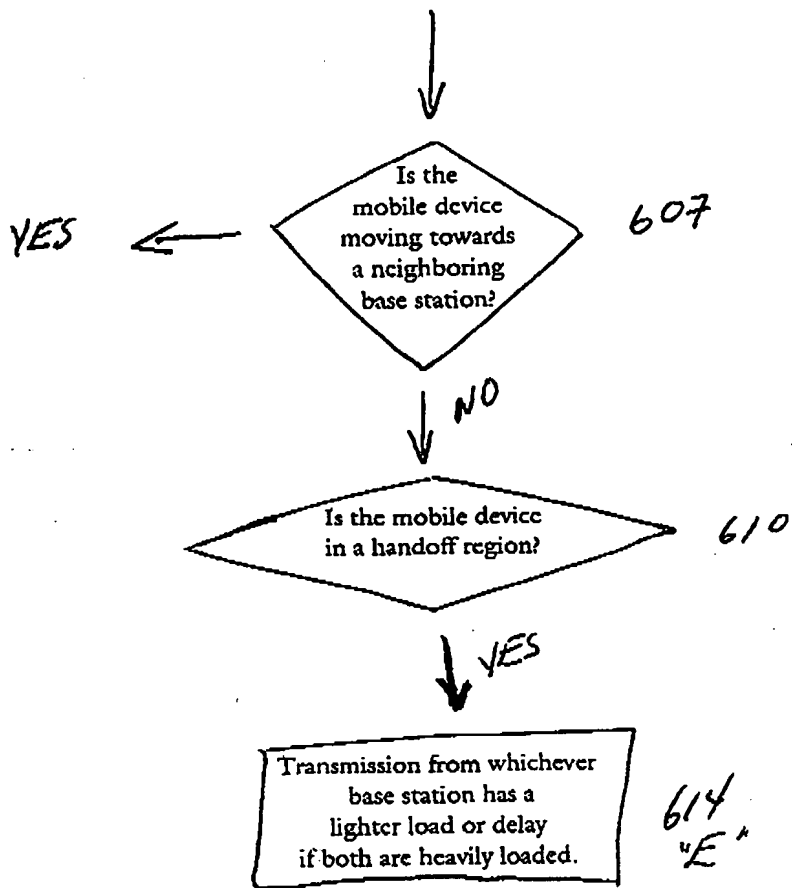


FIG. 3(d)



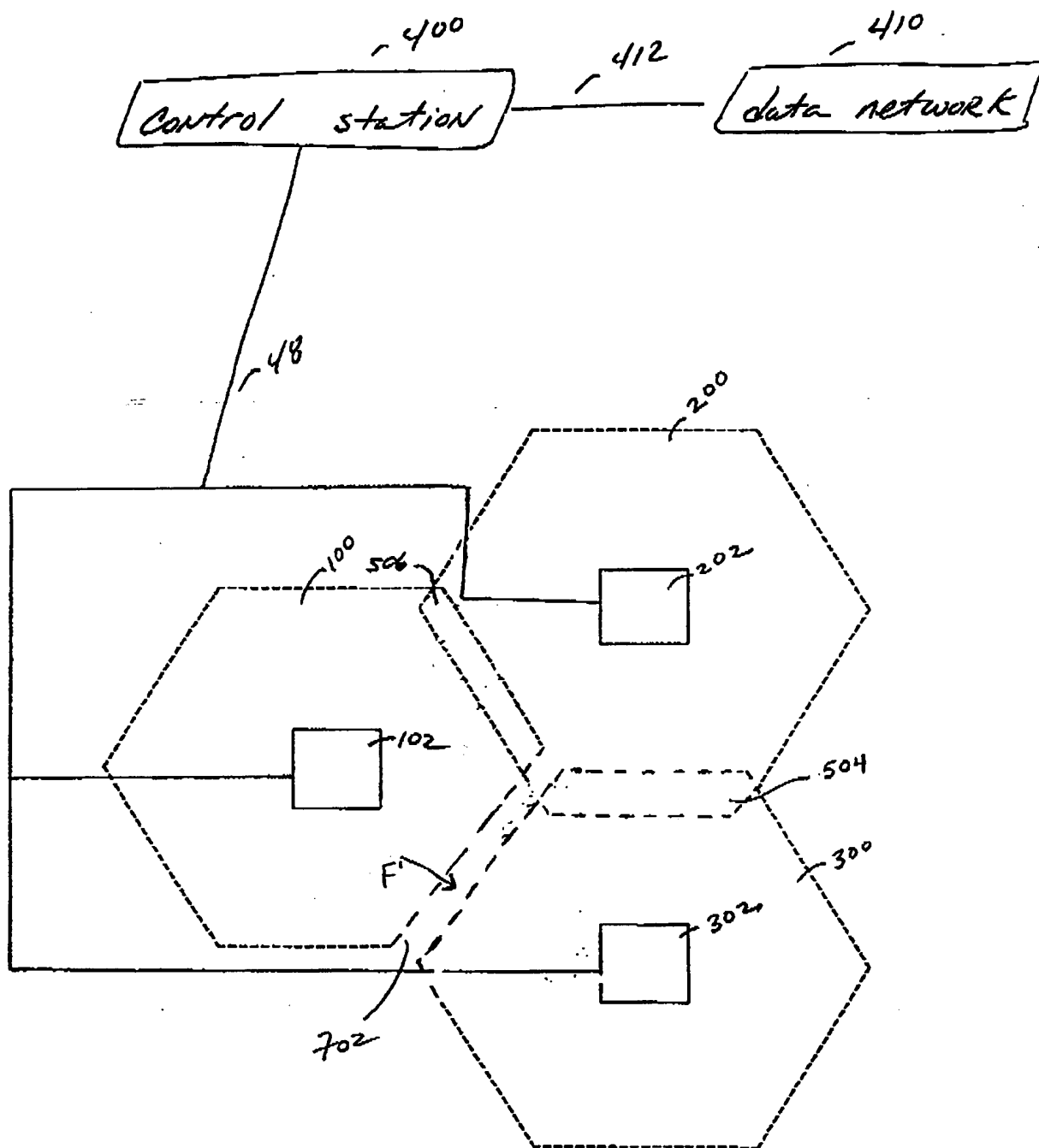


FIG. 4(a)

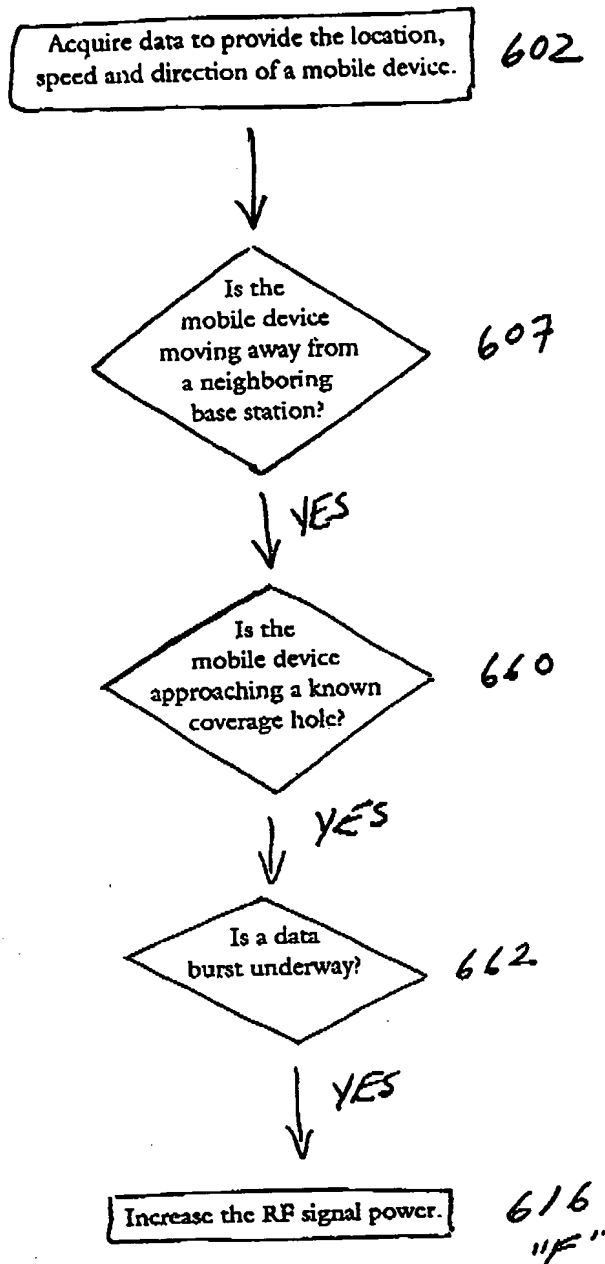


FIG. 4(b)

current  
point in  
time

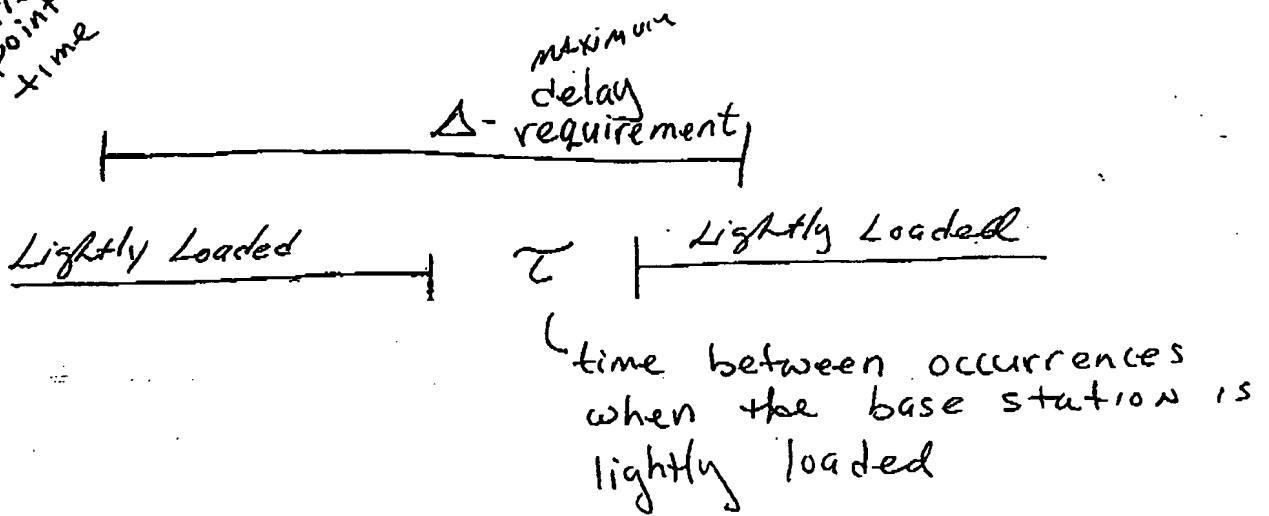


FIG. 5(a)

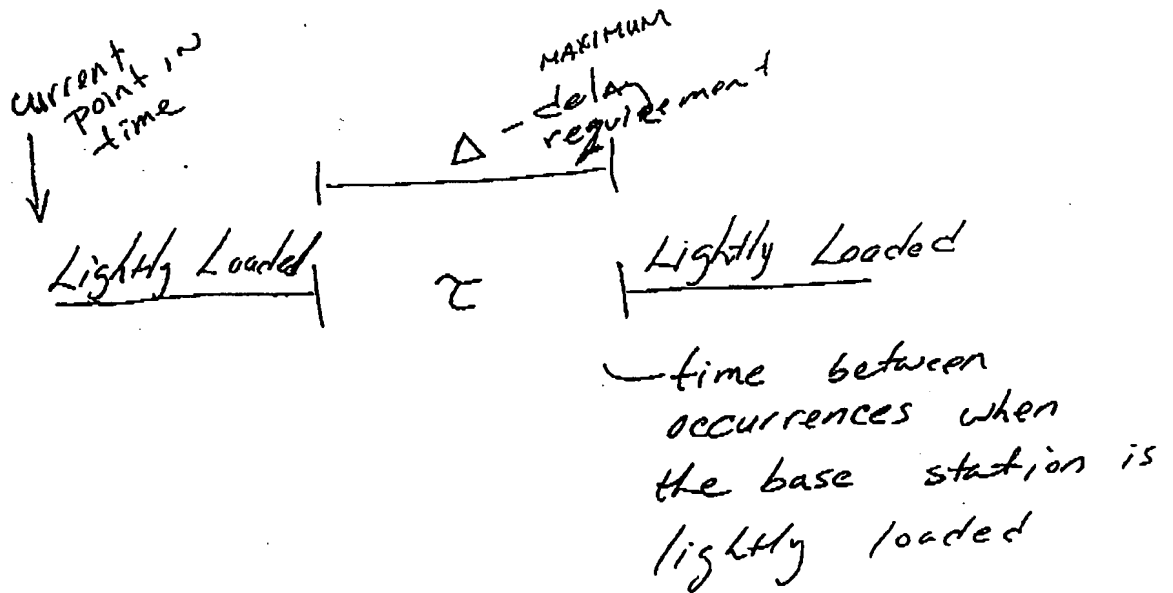


FIG. 5(b)

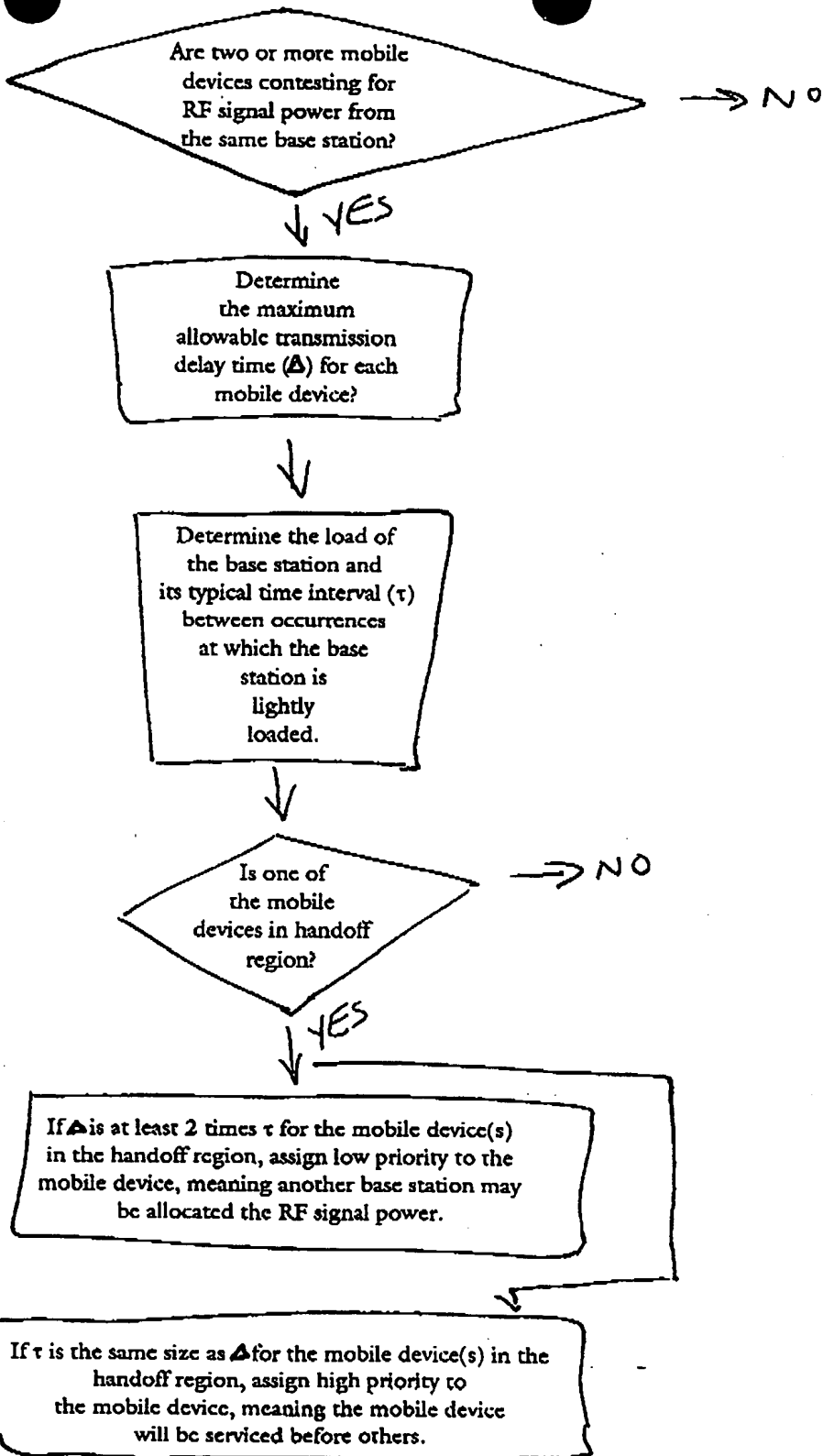


FIG. 5(c)

Acquire data to provide the location,  
speed and direction of a mobile device.

602

Is the  
mobile device  
moving towards  
the base station of  
the cell servicing  
it?

606

YES

Delay transmission as in "A."

608

Is the  
mobile device  
moving towards  
neighboring base  
station?

607

YES

Is the  
mobile device in a  
handoff region?

610

YES

Increase RF signal power - "B".

616

Is the cell towards which  
the mobile device is moving  
lightly loaded?

618

NO

Transmission from whichever cell  
has a lighter load or delay if  
both are heavily loaded - "E"

Is a data  
burst underway?

620

NO

YES

Enter soft handoff - "C"

622

Delay transmission until the  
mobile device is in the cell  
towards which it was  
moving - "D".

624

FIG. 6